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NOTICE OF ALLOWANCE AND FEE(S) DUE

22852

7590

11/10/2010

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER

LLP 901 NEW YORK AVENUE, NW WASHINGTON, DC 20001-4413 EXAMINER
SHOLEMAN, ABU S

ART UNIT PAPER NUMBER

2437

DATE MAILED: 11/10/2010

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/568,618	02/16/2006	Jovan Golic	09952.0025	9355	

TITLE OF INVENTION: SECRET-KEY-CONTROLLED REVERSIBLE CIRCUIT AND CORRESPONDING METHOD OF DATA PROCESSING

I	APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
	nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/10/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

appropriate. All further indicated unless correct maintenance fee notifica	ed below or directed oth	ng the Patent, advance of nerwise in Block 1, by (a	rders and notification a) specifying a new co	of m orresp	ondence address;	ill be and/or	mailed to the current (b) indicating a sepa	corres irate "	spondence address as FEE ADDRESS" for
CURRENT CORRESPOND 22852	PENCE ADDRESS (Note: Use Bl		Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.						
FINNEGAN, I LLP 901 NEW YOR	HENDERSON, FA	ARABOW, GARR		State addr	eby certify that the s Postal Service w essed to the Mail	is Fee(ith suf Stop	of Mailing or Trans s) Transmittal is being ficient postage for fir ISSUE FEE address 1) 273-2885, on the d	g depo st class above	sited with the United s mail in an envelope e, or being facsimile
WASHINGTON	N, DC 20001-4413								(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	гоп		ATTO	RNEY DOCKET NO.	COI	NFIRMATION NO.
10/568,618 TITLE OF INVENTION	02/16/2006 I: SECRET-KEY-CONT	ROLLED REVERSIBL	Jovan Golic E CIRCUIT AND COI	RRE	SPONDING MET	HOD C	09952.0025 DF DATA PROCESSI	NG	9355
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	E FEE	TOTAL FEE(S) DUE	\top	DATE DUE
nonprovisional	NO	\$1510	\$300		\$0		\$1810		02/10/2011
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SHOLEMA	AN, ABU S	2437	713-168000						
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required.	nge of Correspondence "Indication form led. Use of a Customer A TO BE PRINTED ON	registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.							
recordation as set fort (A) NAME OF ASSI	th in 37 CFR 3.11. Comp GNEE	ified below, no assignee pletion of this form is NO	T a substitute for filing (B) RESIDENCE: (C	an a	ssignment. and STATE OR C	OUNT	TRY)		
4a. The following fee(s) Issue Fee Publication Fee (N	4l permitted)	4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).							
NOTE: The Issue Fee an	ns SMALL ENTITY state	us. See 37 CFR 1.27.	b. Applicant is no	-	_				
interest as shown by the	records of the United Sta	tes Patent and Trademark	Office.		,5*				
Authorized Signature					Date				
Typed or printed name			_						
This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this bu. Jirginia 22313-1450. DC	FR 1.311. The information U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the NOT SEND FEES OR	on is required to obtain 1.14. This collection is depending upon the ie Chief Information OCOMPLETED FORM	or res s esti ndivi fficer S TC	etain a benefit by the mated to take 12 r dual case. Any co r, U.S. Patent and THIS ADDRESS	ne publ ninutes mment Traden	ic which is to file (and to complete, includir s on the amount of tinark Office, U.S. Dep D TO: Commissioner	I by thing gath me you artmer for Pa	te USPTO to process) nering, preparing, and u require to complete nt of Commerce, P.O. tents, P.O. Box 1450,

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10/568,618	02/16/2006	Jovan Golic	09952.0025	9355	
22852 75	590 11/10/2010	EXAMINER			
FINNEGAN, HE	NDERSON, FARAI	SHOLEMAN, ABU S			
LLP		ART UNIT	PAPER NUMBER		
901 NEW YORK A WASHINGTON, I		2437 DATE MAILED: 11/10/201	0		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 453 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 453 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

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	Application No.	Applicant(s)	
	10/568,618	GOLIC, JOVAN	
Notice of Allowability	Examiner	Art Unit	
	ABU SHOLEMAN	2437	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commits (IGHTS). This application is	n this application. If not included unication will be mailed in due cours	
1. This communication is responsive to <u>08/27/2010</u> .			
2. \boxtimes The allowed claim(s) is/are <u>42-82</u> .			
 3. Acknowledgment is made of a claim for foreign priority unally all blooms. Some* closed None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). 	e been received. e been received in Applicati	on No	om the
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submin INFORMAL PATENT APPLICATION (PTO-152) which give	MENT of this application. itted. Note the attached EX	AMINER'S AMENDMENT or NOTIC	
	` , `		
 CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 		w (PTO 948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date	-	w (110-540) attached	
(b) including changes required by the attached Examiner' Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the state of the sheet.	s Amendment / Comment o	he drawings in the front (not the back)	of
DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MAT	ERIAL must be submitted. Note the	ne
Attachment(s)	5 No. 31	Samuel Detail Ann " C	
1. Notice of References Cited (PTO-892)		nformal Patent Application	
 Notice of Draftperson's Patent Drawing Review (PTO-948) Information Disclosure Statements (PTO/SB/08), 	Paper No.	ummary (PTO-413), /Mail Date : Amendment/Comment	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit		Statement of Reasons for Allowance	e
of Biological Material	 9.		

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DETAILED ACTION

Examiner's statement of reason of allowance

- 1. Claims 42-82 are allowed.
- 2. The following is an examiner's statement of reasons for allowance: the present invention relates to a data processing system, and in particular to a secret –keycontrolled reversible circuit used for encrypting and decrypting data. Independent claims 42, 69 and 77, recites the uniquely distinct features of "a multiplexer circuit that receives a first portion of said input block of bits and a first set of key bits as inputs, the first portion of said input block of bits operable to select a second set of key bits out of the first set of key bits, wherein the selected second set of key bits are output by said multiplexer circuit, said first portion of bits are transferred intact without modification by an encryption operation to an output of said building block, and the number of bits in the second set of key bits is less than the number of bits in the first set of key bits; and a transformation circuit, for transforming a second portion of said input block of bits into transformed bits according to a reversible transformation chosen, by means of said selected second set of key bits, among a plurality of reversible transformations implemented in said transformation circuit, wherein said transformation circuit transforms said second portion of said input block of bits without receiving said first portion of said input block of bits as an input and said output block of bits comprises the transformed bits followed by said first portion of said input block of bits".

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3. The closest prior art,

a) Lim et al (US 2002/0012430), discloses a pipelined encryption apparatus, the apparatus for encrypting 64-bit plain text blocks, comprising: input buffering unit for receiving a plain text block byte-by-byte and outputting a first and a second 32-bit plain text blocks in response to a first clock; encryption unit for performing time multiplexed encryption of the first and the second 32-bit plain text blocks in response to the first clock and a second clock, thereby generating a first and a second 32-bit cipher text blocks; and output buffering unit for receiving the first and the second 32-bit cipher text blocks in response to the second clock and outputting eight 8-bit cipher text blocks.

Those prior arts fail to anticipate or render the above underlined limitations obvious for claims 42, 69 and 77.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Abu Sholeman whose telephone number is (571)270-

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7314. The examiner can normally be reached on Monday through Thursday 7:30 AM -

5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Emmanuel Moise can be reached on (571)272-3865. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/ABU SHOLEMAN/

Examiner, Art Unit 2437

/Matthew B Smithers/

Primary Examiner, Art Unit 2437